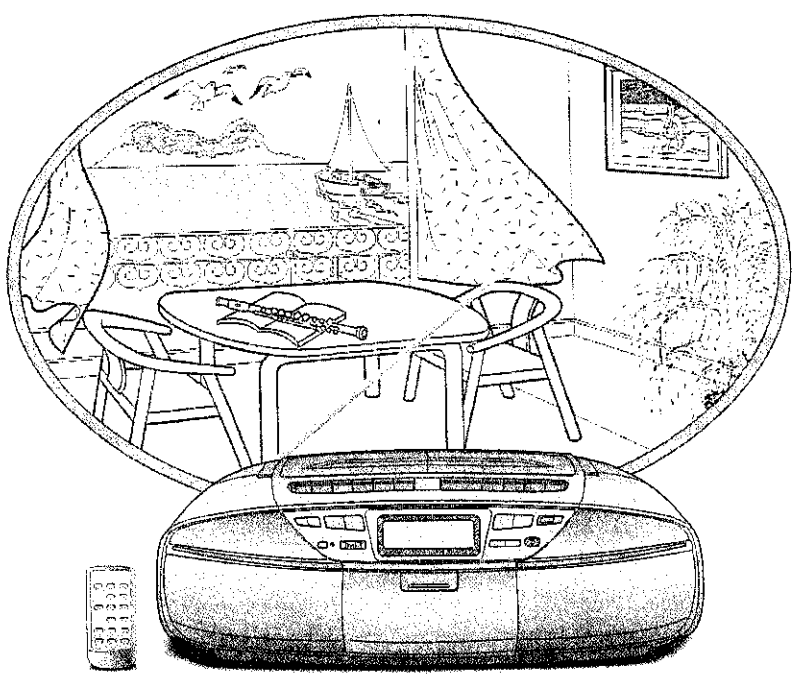
Portable Stereo CD System

Panasonic®

RX-DT39

Operating Instructions



COMPACT disc DIGITAL AUDIO

Note:
The "EB" indication shown on the packing case indicates United Kingdom.

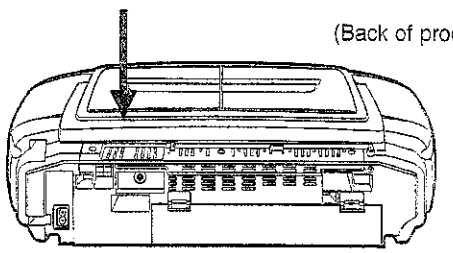
Before connecting, operating or adjusting this product, please read these instructions completely. Please save this manual.

EB GN

RQT4715-B

CLASS 1
LASER PRODUCT

(Back of product)



DANGER	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.	(Inside of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	(Indersiden at apparatet)
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	(Tuotteen sisällä)
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.	(Apparatens insida)
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.	(Produktets innside)
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.	(Im Inneren des Gerätes)

CAUTION !

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION !

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT IN CABINET OR IN ANOTHER CONFINED SPACE IN ORDER TO KEEP WELL VENTILATED CONDITION. ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION CONDITION TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

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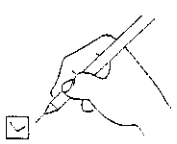
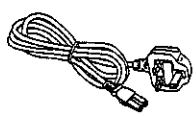
Supplied accessories



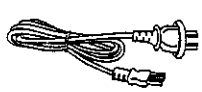
Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts.

☐ AC power supply cord ..... 1 pc.

For United Kingdom:
(VJA0733)



For Australia and New Zealand:
(RJA0035-X)



☐ Remote control transmitter ..... 1 pc.
(RAK-RX928WK)

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

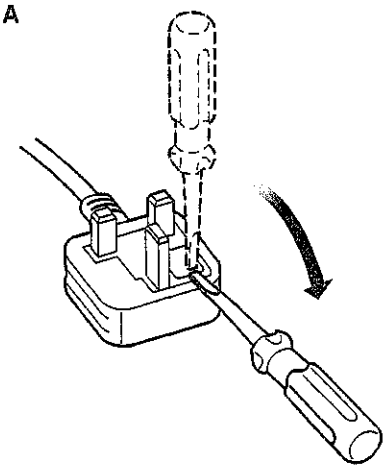
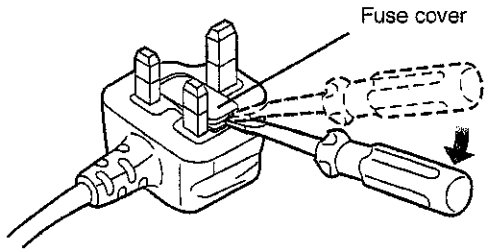


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

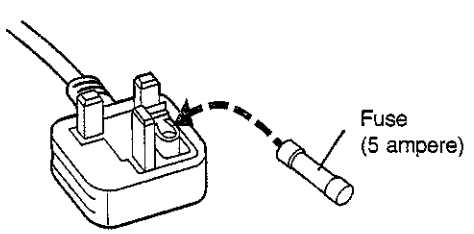
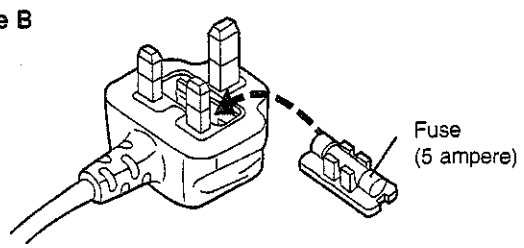
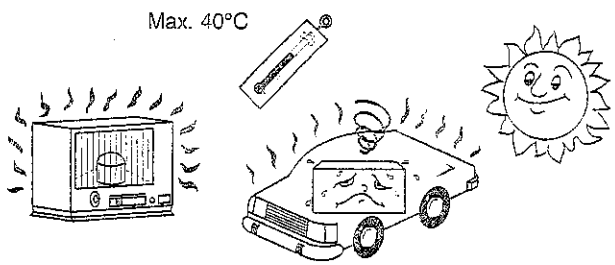


Figure B





Precautions

- **If this unit is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.**
- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.
- Avoid cuts, scratches, or poor connections in the AC power cord, as they may result in possible fire or electric shock hazard. Also, excessive bending, pulling or splicing of the cord should be avoided.
- Do not unplug the AC power cord by pulling on the cord. To do so may cause premature failure or shock hazard.
- Do not operate this unit on AC power in a bathroom, as a potential shock hazard may result.
- When not in use, disconnect the AC power cord from the household AC outlet.

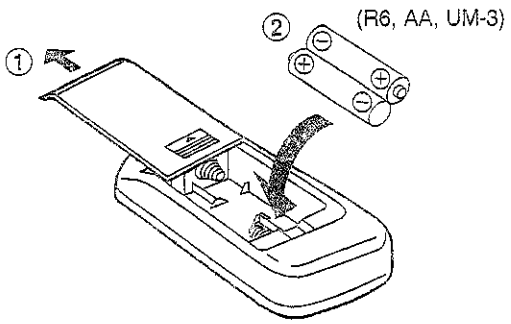
Use of batteries

- Do not use rechargeable type batteries.
- Do not mix old and new batteries, or batteries of different types (manganese and alkaline, etc.).
- Always remove old, weak or worn-out batteries promptly and dispose of them properly.
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.
- If this unit is not to be used for a long period of time or is used only from an AC power source, remove the batteries and store them in a cool, dark place.
- If a battery leaks, remove all batteries and dispose of them properly.
- Thoroughly clean the battery compartment before inserting new batteries.
- If the electrolyte comes into contact with skin or clothes, flush with water immediately.
- Keep batteries out of reach of children.
- Do not attempt to recharge alkaline or manganese batteries.
- Batteries installed with incorrect polarities may leak and damage the unit.

In these operating instructions, "unit off" defines the following modes.
"Standby" when AC power is used.
"Battery power off" when batteries are used.

Concerning the remote control

Battery (not included) installation and removal A



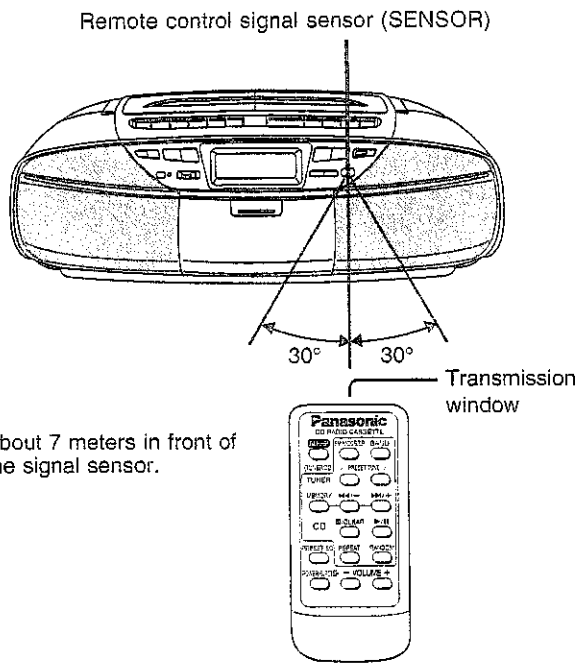
① Open the battery cover. (Push the cover in the direction of the "▶" mark.)
② Insert the batteries in the correct polarities (⊕, ⊖).

Remove the batteries by pulling the positive side (⊕) of the battery up.

Use of batteries

- Do not mix old and new batteries, or batteries of different types (manganese and alkaline, etc.).
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.
- If the remote control is not to be used for a long period of time, remove the batteries and store them in a cool, dark place.
- Do not attempt to recharge alkaline or manganese batteries.
- Do not use rechargeable type batteries.

General method of use B



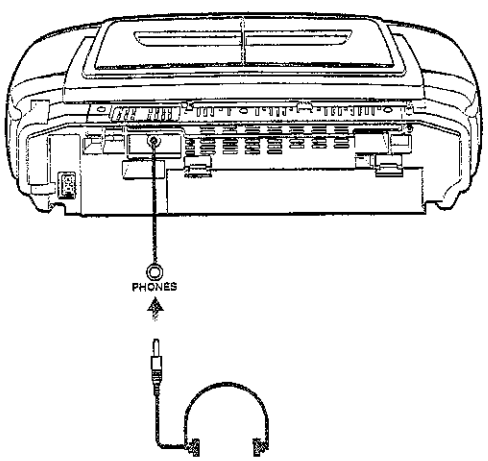
Operation notes

- Do not place obstacles between the remote control signal sensor and remote control unit.
- Do not expose the remote control signal sensor to direct sunlight or to the bright light of an invertor fluorescent light.
- Take care to keep the remote control signal sensor and end of the remote control unit free from dust.

To prevent damage

- Never place heavy items on it.
- Do not disassemble or reconstruct it.
- Do not spill water or other liquids on it.

To listen through headphones (not included) C



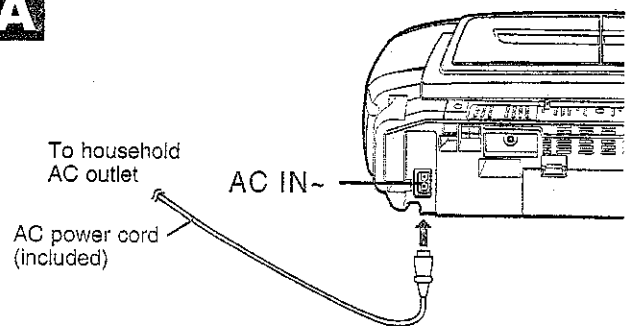
Turn down the volume and connect the headphones to the [PHONES] jack.

Plug type: 3.5 mm stereo

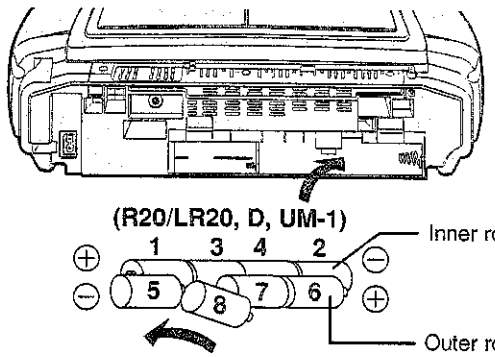
Note

Avoid listening for prolonged periods of time to prevent hearing damage.

A



B



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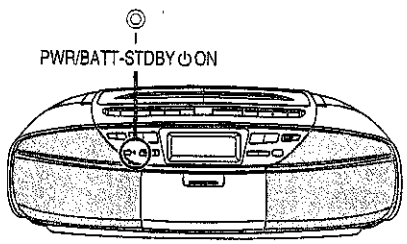
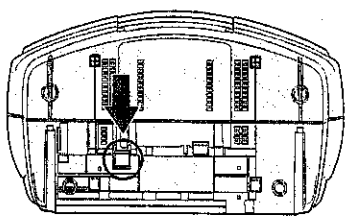
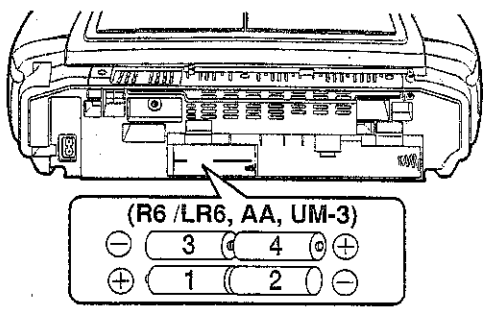


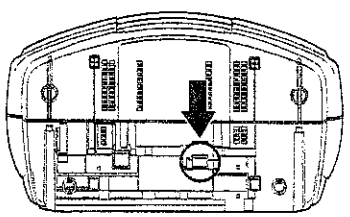
D



E



F



Power sources

Using a household AC outlet A

FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.

Connect the included AC power cord to the [AC IN~] socket of the unit and your household AC outlet.

Notes

- Before connecting or disconnecting the AC power cord to the unit, make sure the unit is switched off by setting [SELECTOR] to "TAPE/OFF". (If the tape is travelling, press [■/⏏ STOP/EJECT] as well.)
- If the unit is not going to be used for a prolonged period of time, disconnect the AC power cord to conserve power.

Using batteries (not included) B

Disconnect the AC power cord from the [AC IN~] socket of the unit, and insert eight R20/LR20 (D, UM-1, not included) batteries in the illustrated order.

When to replace the batteries

When the batteries are weak:

- The power/standby/battery indicator goes off (or dims) during play. C
- "▭" starts to flash and "U01" appears on the display, then the unit automatically turns itself off.

Be sure to replace all batteries with new ones.

How to remove the batteries D

Remove batteries by inserting your finger into opening at the bottom of the unit and pushing out.

Memory back-up batteries (not included)

In the event of a power failure, or if the AC power cord is disconnected from the household AC outlet (during AC operation), or should the batteries fail, the memory back-up batteries will preserve the preset memory of this unit.

Battery installation E

Insert four R6/LR6 (AA, UM-3, not included) batteries into the battery compartment, making sure that the batteries are installed in the designated numerical order and that the proper polarities are maintained.

- The life of the memory back-up batteries can be prolonged by keeping the AC power cord plugged in the household AC outlet at all times.
- When disconnecting the AC power cord, switch off the unit first by setting [SELECTOR] to "TAPE/OFF". (If the tape is travelling, press [■/⏏ STOP/EJECT] as well.) The life of the memory back-up batteries is reduced if the AC power cord is disconnected from a household AC outlet with the power still supplied.

Battery removal F

Remove batteries by inserting your finger into opening at the bottom of the unit and pushing out.

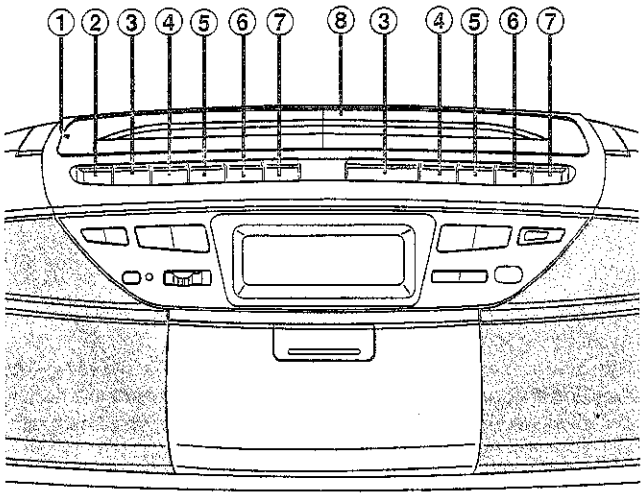
Battery life

The life of the memory back-up batteries is about one year.

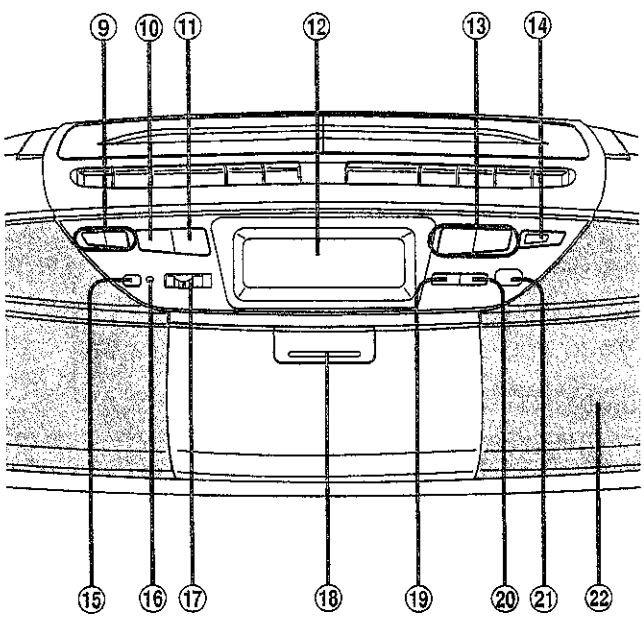
Location of controls

Main unit

A



B



Number	Designation	Reference page
①	Deck 1 (Recording/playback)	13, 17
②	Recording button (● REC)	15–17
③	Playback button (▶ PLAY)	13, 17
④	Rewind/review button (◀◀ REW/REV)	13
⑤	Fast forward/cue button (▶▶ FF/CUE)	13
⑥	Stop/eject button (■/⏏ STOP/EJECT)	13
⑦	Pause button (❚❚ PAUSE)	13
⑧	Deck 2 (Playback)	13, 17

B

⑨	Tuning/CD skip, search buttons (I◀◀/–, ▶▶I/+ SKIP/SEARCH, TUNING)	8–10, 12
⑩	CD play/pause button (▶/❚❚ PLAY/PAUSE)	10
⑪	CD stop/program clear button (■ STOP/CLEAR)	10, 12
⑫	Display panel	
⑬	Volume control buttons (–, + VOLUME)	8, 10, 13
⑭	Power blaster button (POWER BLASTER)	14
⑮	Band select button (BAND)	8
⑯	Power/standby/battery indicator (PWR/BATT-STDBY⏻ON)	6

The indicator lights green when the unit is turned on.
When the AC power supply is used, it functions as an AC connection indicator. (The indicator colour changes to red when the unit is turned off.)
When the unit is operated on batteries, it functions as a battery check indicator. (See page 6.)

⑰	Function selector (SELECTOR)	8, 10, 13

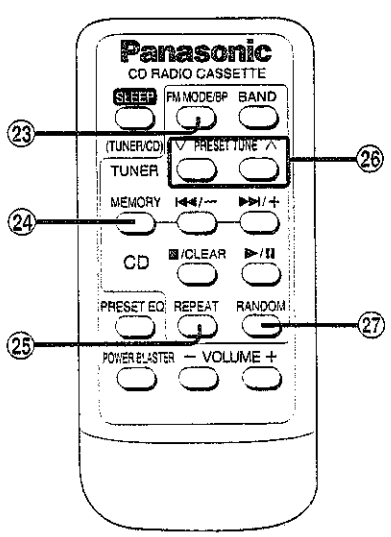
The function selector switch does not separate entire unit from mains even if in "TAPE/OFF" position.

⑱	CD tray open button (⏏ CD EJECT)	10, 16
⑲	Preset equalizer button (PRESET EQ)	14
⑳	Sleep timer button [SLEEP (TUNER/CD)]	17
㉑	Remote control signal sensor (SENSOR)	5
㉒	Speaker	

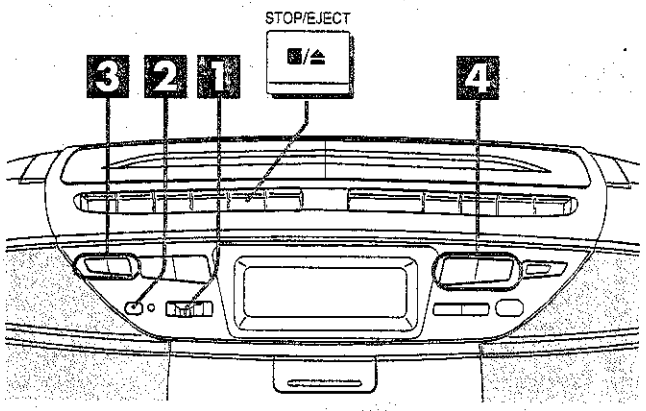
Remote control

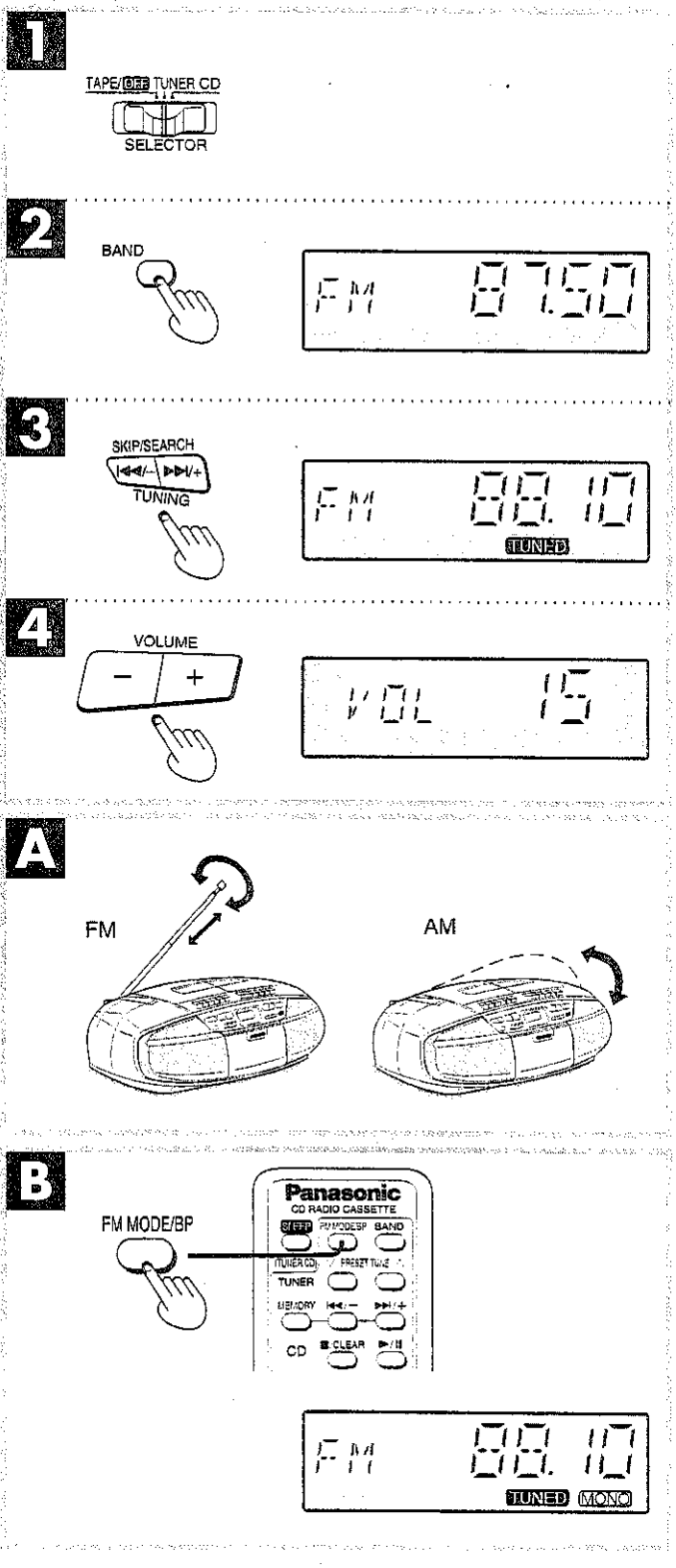
The functions of the buttons without numbers are same as on the main unit.

C



Number	Designation	Reference page
㉓	Stereo/monaural, beat proof button (FM MODE/BP)	8, 15
㉔	CD program, tuner preset button (MEMORY)	9, 12
㉕	CD repeat play button (REPEAT)	10
㉖	Preset tuning buttons (∨ PRESET TUNE ∧)	9
㉗	CD random play button (RANDOM)	11





Listening to radio broadcasts

1 Set [SELECTOR] to "TUNER".

2 **Press [BAND] to select "FM" or "AM".**
Every time you press the button: FM ↔ AM.

3 **Press [⏮/–] or [⏭/+] to tune in the broadcast station.**
Adjust the frequency until " TUNED " is displayed on the panel (the display blinks or does not light when reception is weak).

4 **Adjust the volume.**

Automatic tuning:
This is a simple way of tuning in stations that have not been preset.
Keep [⏮/–] or [⏭/+] depressed, and release it when the frequency display starts to change. A station with good reception is automatically selected and the selection process then stops.
To stop automatic tuning, press [⏮/–] or [⏭/+] again.

Hint

Automatic tuning may stop without a station having been tuned in when interference is encountered on neighbouring airwaves. In such a case, tune in a station by tapping [⏮/–] or [⏭/+].

To turn off the unit:
Set [SELECTOR] to "TAPE/OFF".
If the tape is travelling, press [■/⏏ STOP/EJECT] as well.

Adjusting the antennas A

For FM reception:
Pull out the telescopic antenna and adjust its length and angle for optimum reception.

For AM reception:
Turn the unit in the direction which gives the best results.

Reference

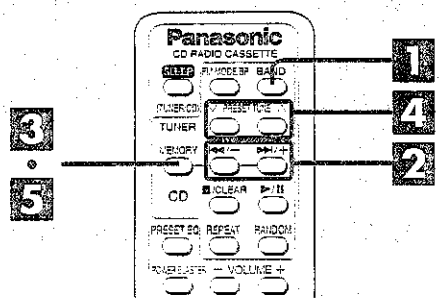
Radio broadcasts may be hard to receive in a moving vehicle or in a building because the signal may be weakened. In such cases, use the unit near a window.

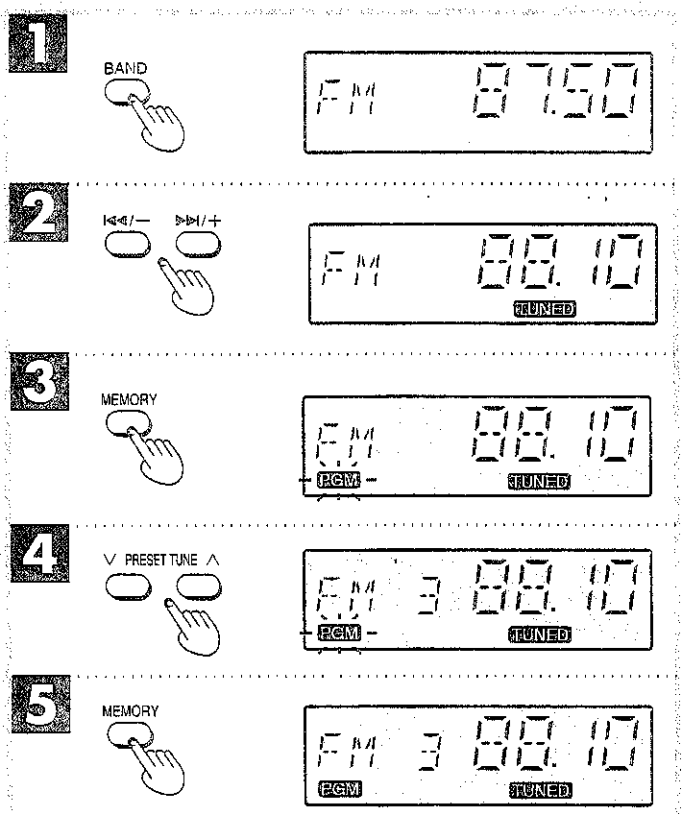
When there is a lot of noise in an FM stereo broadcast B

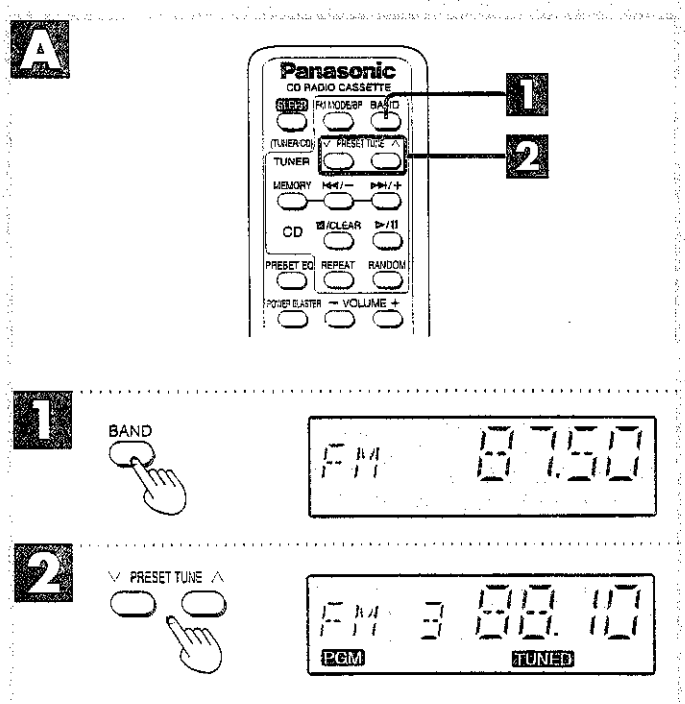
by remote control only

Reduce the interference by setting the sound to monaural.
Press [FM MODE/BP].
" MONO " is displayed.

To return to stereo reception, repeat the same procedure to turn off the " MONO " display.
It is normally best to keep " MONO " off.
This way FM stereo programs will automatically be heard in stereo.







Listening to radio broadcasts

Preset tuning

- Up to ten FM and AM stations each can be programmed.
- If broadcast frequencies are preset in the memory, you can easily tune in any of these frequencies.
- You can preset just those stations you like.

Programming broadcast stations

by remote control only

Preset radio stations on the FM and AM.

1 **Press [BAND] to select "FM" or "AM".**
Every time you press the button: FM ↔ AM

2 **Press [|◀◀/–] or [▶▶|/+] to select the desired station.**

3 **Press [MEMORY] once.**
" PGM " flashes.

4 **While " PGM " is flashing:**
Press [∨] or [∧] to select the preset channel.

5 **While " PGM " is flashing:**
Press [MEMORY].
If the " PGM " indicator goes off during programming, return to step 3.

6 **Repeat steps 2 to 5 to program other stations.**

Selecting the preset channel A

by remote control only

1 **Press [BAND] to select "FM" or "AM".**
Every time you press the button: FM ↔ AM

2 **Press [∨] or [∧] to select the preset channel.**

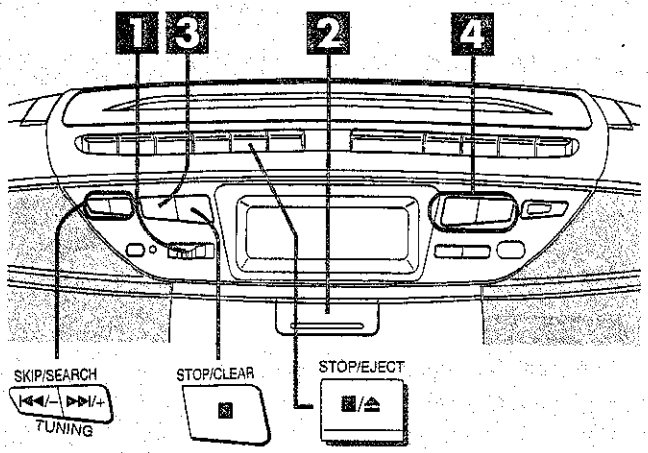
To erase an unwanted preset channel

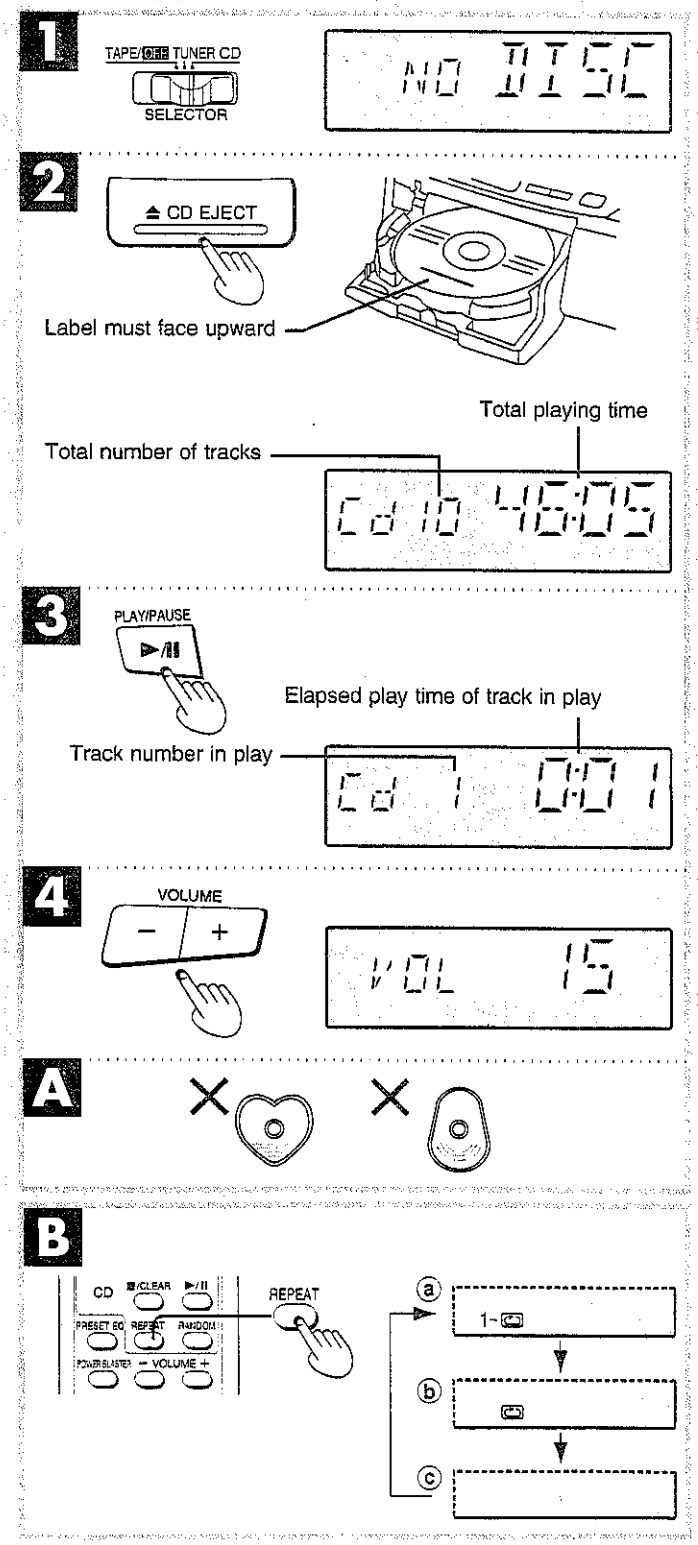
by remote control only

e.g. erasing preset channel 3.

1. **Select preset channel 3. (See above.)**
2. **Press [MEMORY]. (" PGM " will flash.)**
3. **While " PGM " is flashing:**
   Press [∨] or [∧] repeatedly until the preset channel display indicates "– –".
4. **Press [MEMORY].**

The erased preset channel will now be skipped when selecting preset channels. (e.g. 1→2→4→5....)





Listening to CDs

Sequential play

1 **Set [SELECTOR] to "CD".**
"NO DISC" appears when no CD is loaded.

2 **Press [⏏ CD EJECT], insert a CD and close the cover.**

3 **Press [▶/II PLAY/PAUSE] to start play.**
Play starts from the first track and continues to the last track, after which it automatically stops.

4 **Adjust the volume.**

To stop the disc:
Press [■ STOP/CLEAR].

To pause	Press [▶/II] during playback. To resume playback, press [▶/II].
To search forward/ backward	Hold down [I◀◀/–] (backward) or [▶▶I/+] (forward) during playback/pause mode.
To skip forward/ backward	Press [I◀◀/–] (backward) or [▶▶I/+] (forward).

Notes

- If interference occurs to radios or televisions, place the unit as far as possible from this equipment.
- Do not press [⏏ CD EJECT] during play, pause or immediately after when you inserted the CD and closed the CD tray. CD may be scratched.

To prevent damage A
Do not use irregular shape CDs.

To turn off the unit:
Set [SELECTOR] to "TAPE/OFF".
If the tape is travelling, press [■/⏏ STOP/EJECT] as well.

Repeat play

by remote control only

Press [REPEAT] before or during play. B
Every time you press the button:

→1-🔁 → 🔁 → (off)

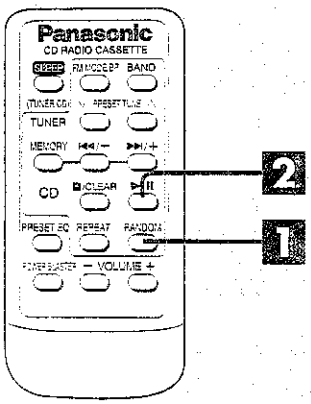
Press [▶/II] to begin play if you are in the stop mode.

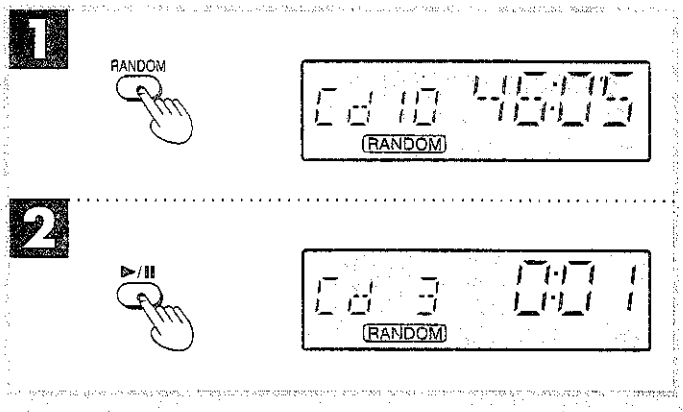
To repeat just one track:
Press [REPEAT] to select " 1-🔁 ". ⓐ

To repeat all tracks:
Press [REPEAT] to select " 🔁 ". ⓑ

To repeat programmed tracks:
1. Program desired tracks (steps 1 to 4 on page 12).
2. Press [REPEAT] to display " 🔁 ".
3. Press [▶/II] to begin play.

To cancel repeat play:
Press [REPEAT] to clear " 1-🔁 " or " 🔁 ". ⓒ
Pressing [⏏ CD EJECT] will cancel repeat function.





Random play

Before operation:
Set [SELECTOR] to "CD".

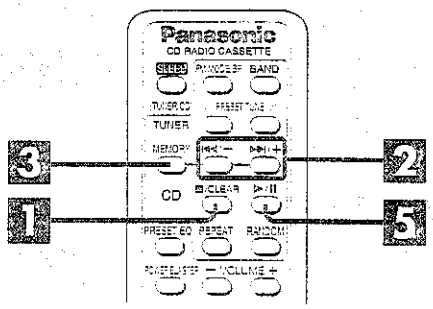
by remote control only

1 **Press [RANDOM] when CD is in stop mode.**
"RANDOM" is not displayed if pressed when CD is in play mode.

2 **Press [▶/II].**
All tracks on the loaded CD will be played in random order. Playback will stop automatically when all tracks have been played.

To cancel random play:
- Press [RANDOM] to clear "RANDOM".
  If cancelled during random play, the CD plays from the track in play to the end of the CD, and automatically stops.
- Pressing [⏏ CD EJECT] will cancel random function.

Notes
- During random play, you cannot skip to tracks which have already been played.
- During random play, you can search forward or backward only within the current tracks.
- Random play cannot be used in combination with program play.



Programming

You can program up to 24 tracks.

Before operation:

- Set [SELECTOR] to "CD".
- Program play cannot be used in combination with random play. When " RANDOM " is displayed, press [RANDOM] on the remote control to clear the display.

(by remote control only)

1 Press [■/CLEAR].
The total number of tracks and total play time of the CD are displayed.

2 Press [I◀◀/–] or [▶▶I/+] to select the desired track.

3 Press [MEMORY].
" PGM " is displayed.

4 Repeat steps 2 and 3 until you have programmed all the tracks you want.

5 Press [▶/II].
Play will start in the programmed sequence.

When all programmed tracks have been played, "Cd-P" and the total play time will be displayed. A

To cancel program play:
Press [■/CLEAR] in the stop mode to display "CLR".
Pressing [≙ CD EJECT] will cancel program function.

When "– –:– –" appears: B
This means that the total play time of the programmed tracks has exceeded 120 minutes. Tracks can still be programmed and played.

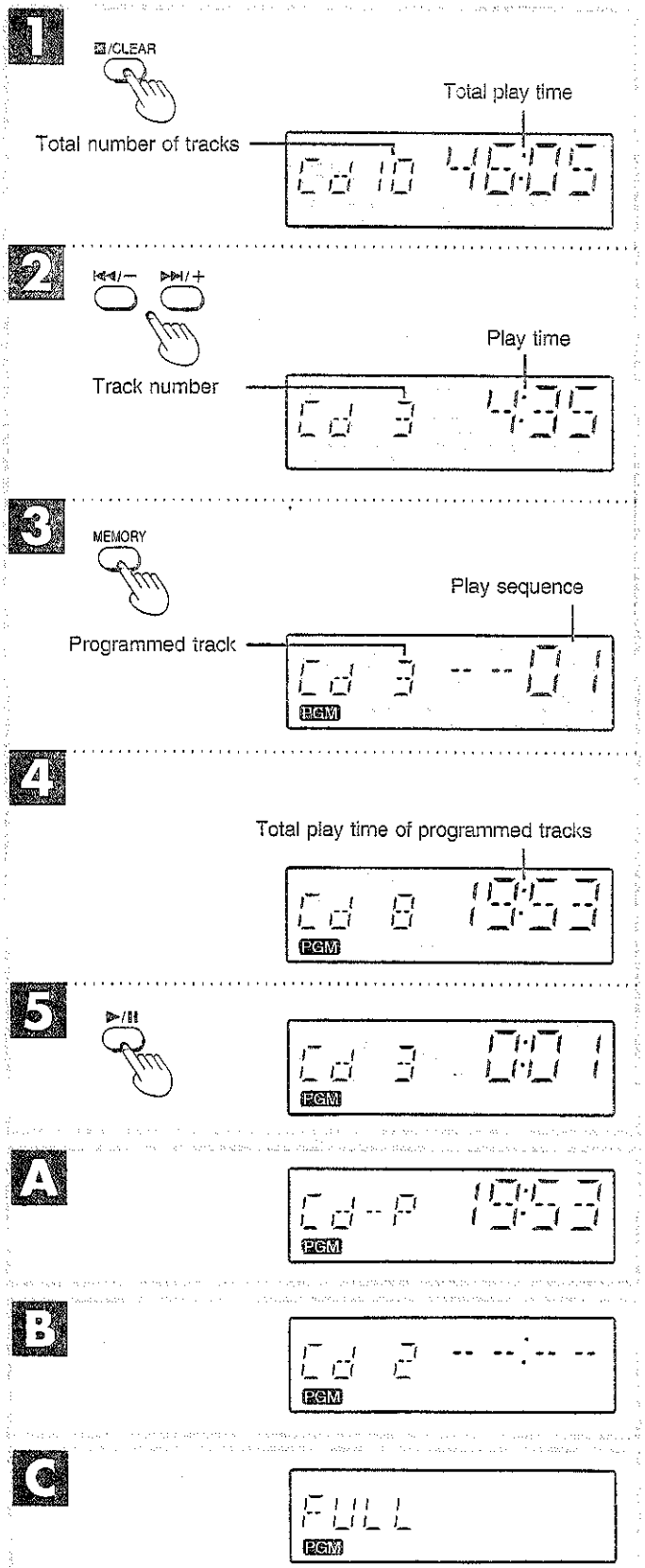
When "FULL" appears: C
The number of programmed tracks is limited to 24. No further tracks can be programmed.

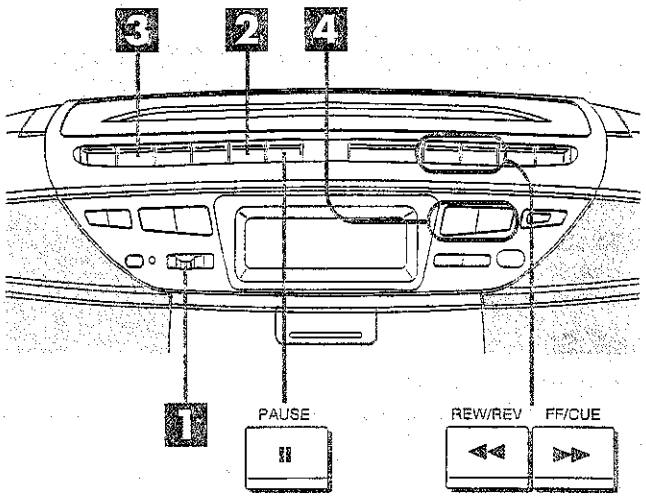
To check what has been programmed:
Press [I◀◀/–] or [▶▶I/+] when "Cd-P" is displayed at the end of the program play.
The display will show the track number and programmed sequence.

Memory retention of programmed tracks:
The memory retains the program even if play is stopped or the unit is turned off.

Notes

- During program play, you can search forward or backward only within the current track.
- During program play, skipping is always in the programmed order, whether forward or backward.





Listening to tapes

Tapes can be played back either in deck 1 or deck 2.

Type of tapes which can be played on this unit:

Normal position/TYPE I	○
High position/TYPE II	×
Metal position/TYPE IV	×

This unit will not be able to do full justice to characteristics of high-position tapes and metal position tapes even if they are played back.

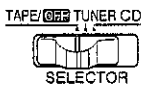
1 Set [SELECTOR] to "TAPE/OFF".

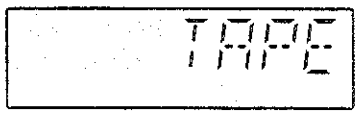
2 Press [■/⏏ STOP/EJECT], load the tape and close the lid.

3 Press [▶ PLAY] to start play.

4 Adjust the volume.

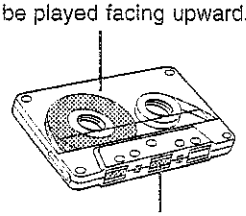
1





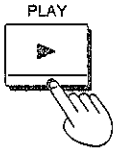
2

Side to be played facing upward.

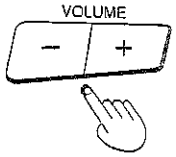


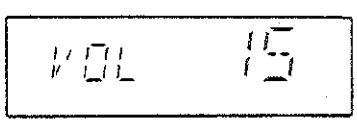
Insert the tape with the exposed tape facing you.

3

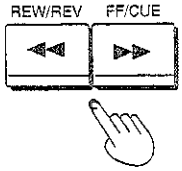


4





A



To stop play:
Press [■/⏏ STOP/EJECT].

To stop play temporarily:
Press [⏸ PAUSE].

To resume play:
Press [⏸ PAUSE] again.

The unit's power is on in the pause mode. Stop tape and turn the unit off by pressing [■/⏏ STOP/EJECT] when leaving the unit.

To fast-forward or rewind the tape A

Press [◀◀ REW/REV] or [▶▶ FF/CUE] in the stop mode.

To rewind	To fast-forward
◀◀ REW/REV	▶▶ FF/CUE

Note

Do not press [▶PLAY] when rewinding or fast forwarding, as this may jam the tape.

Be sure to press [■/⏏ STOP/EJECT] before the next operation.

To find a particular spot on a tape A

Press [◀◀ REW/REV] or [▶▶ FF/CUE] during playback.

Tape play is resumed when the button is released.

To search backward	To search forward
◀◀ REW/REV	▶▶ FF/CUE

Playback relay (deck 2 to deck 1)

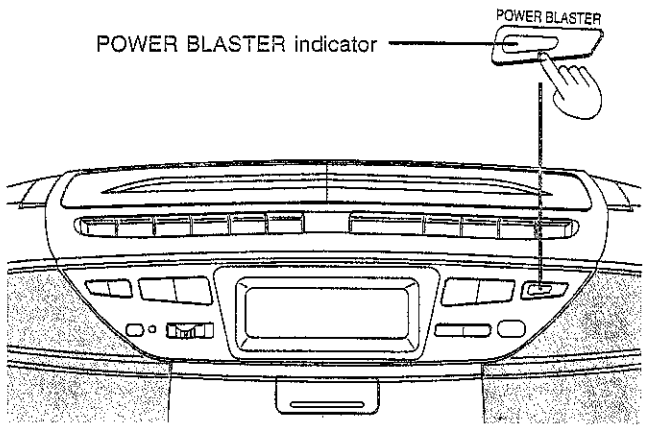
When deck 2 single side playback has finished, deck 1 playback starts automatically.

① **Insert the playback tapes into deck 1 and deck 2.**
② **Press deck 2 [▶ PLAY] to start play.**
③ **Press deck 1 [⏸ PAUSE], then press [▶ PLAY].**

Full auto-stop:
The automatic stop system will release the buttons when the tape reaches the end during play or when recording, fast forwarding or rewinding.

Changing the sound quality

Adjusting the POWER BLASTER A



When the POWER BLASTER is on, the level of the sound is boosted.

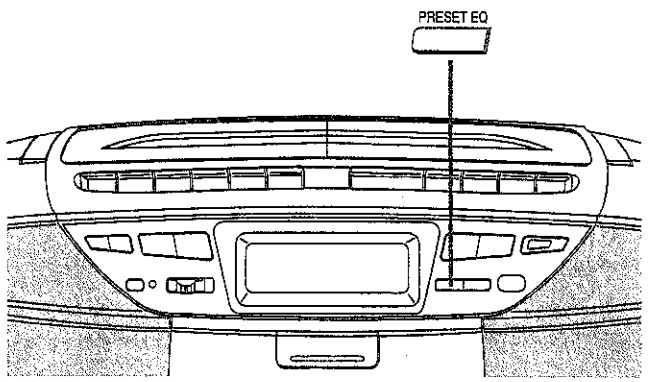
Press [POWER BLASTER].
POWER BLASTER indicator lights when this function is activated.

To cancel POWER BLASTER function:
Press [POWER BLASTER] to turn the indicator off.
To resume Power Blaster, press the button again.

Notes

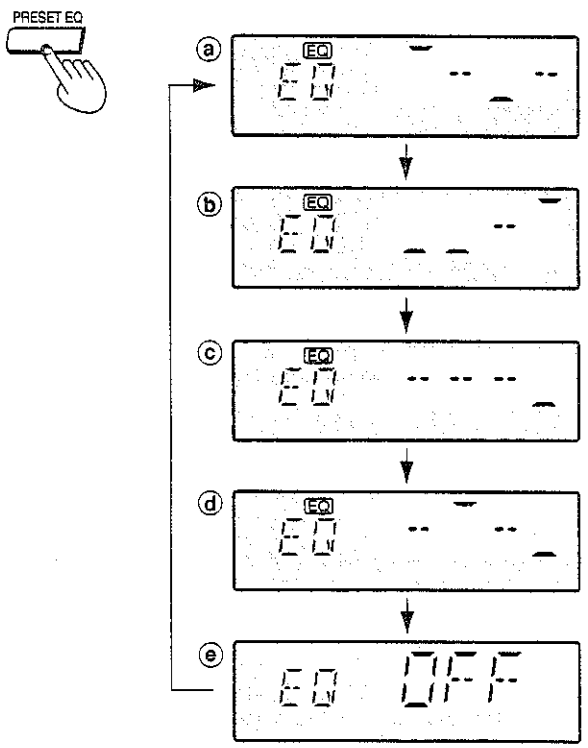
- When listening through headphones
  Turning Power Blaster on heighten the volume. Take care not to damage your hearing.
- Turning Power Blaster on/off will not affect the recording.

Selecting equalizer effects B



Four types of sound quality can be selected.

Press [PRESET EQ] to select desired sound quality.
The displayed image of a sound quality effect changes each time the button is pressed.



ⓐ Gives added punch to rock and other music (XBS)

ⓑ Lightens pop and other music (CLEAR)

ⓒ Allows BGM enjoyment (SOFT)

ⓓ Enhances vocals (VOCAL)

ⓔ No sound quality effects used

Before recording

To take up the leader tape: A

Only normal tapes can be used.
The sound may not be recorded properly if high position tapes and metal position tapes are used with this unit.

References

- Any changes made to the volume or sound quality during recording will not affect the recording.
- In order to prevent trouble caused by flat batteries, it is recommended that you either supply power to the unit from the household AC outlet or replace all the batteries with new ones when you are recording something which is important to you.
- The recording level is set automatically.

Note

If the unit is brought near a TV set during recording, noise may be recorded due to the effects of the signals from the TV set. Maintain a distance of at least 1.5 metres between the unit and a TV set.

To make a blank tape:

1. Load the recorded tape with the side to be erased facing upward.
2. Set [SELECTOR] to "TAPE/OFF".
3. Press [● REC].
   [▶ PLAY] is also depressed with [● REC].

Your attention is drawn to the fact that recording pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

Recording from radio broadcasts (Only deck 1) B

1 Press deck 1 [■/⏏ STOP/EJECT] and load the tape.
Load the tape with the side to be recorded facing upward.

2 Tune in the broadcast station.
(See pages 8 and 9.)

3 Press [● REC] to start recording.
[▶ PLAY] is also depressed with [● REC].

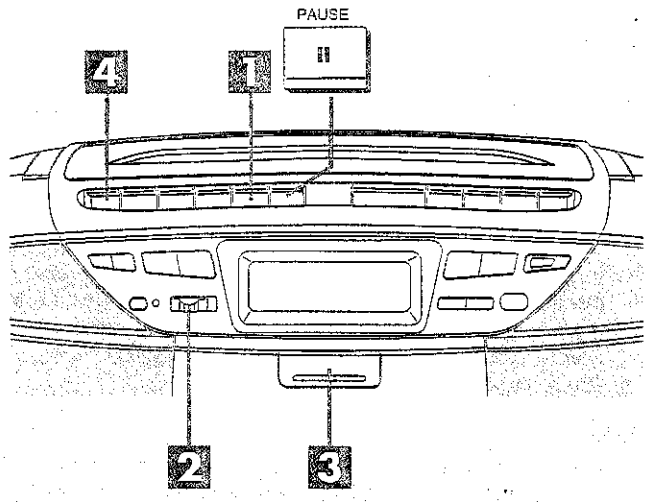
To stop the recording:
Press [■/⏏ STOP/EJECT].

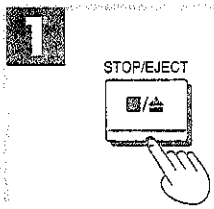
To stop the recording temporarily:
Press [⏸ PAUSE].
To resume recording, press [⏸ PAUSE] again.

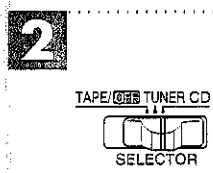
To reduce noise while recording an AM broadcast (Beat proof function) C

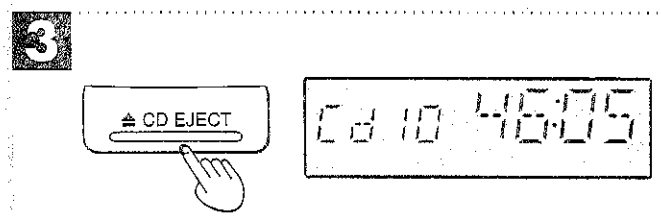
by remote control only

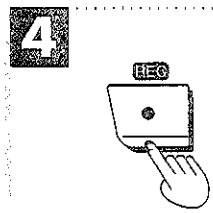
Press [FM MODE/BP] when recording or in the recording standby mode.
Each time you press the button, "bP1" and "bP2" will be displayed alternately. Select the position with the least noise.











Recording from CDs (Only deck 1)

Recording and CD play automatically begin simultaneously.

1 **Press deck 1 [■/≙ STOP/EJECT] and load the tape.**
Load the tape with the side to be recorded facing upward.

2 **Set [SELECTOR] to "CD".**

3 **Press [≙ CD EJECT] and insert the CD.**
Make sure the total play time is displayed before proceeding to the next step.

4 **Press [● REC] to start recording.**
[▶ PLAY] is also depressed with [● REC].
CD play starts simultaneously.

To stop the recording:
Press [■/≙ STOP/EJECT].
(CD does not stop.)

To pause recording:
Press [II PAUSE].
(CD does not stop.)
To resume recording, press [II PAUSE] again.

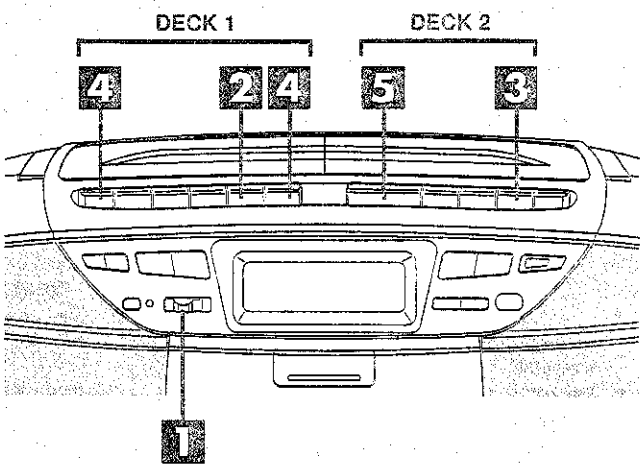
Recording favourite tracks

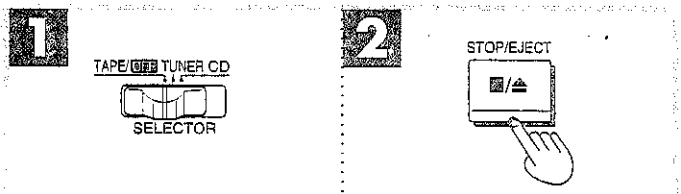
1. Program desired tracks (refer to steps 2 to 4 on page 12) after step 3.
2. Press [● REC] to start recording.
   [▶ PLAY] is also depressed with [● REC].

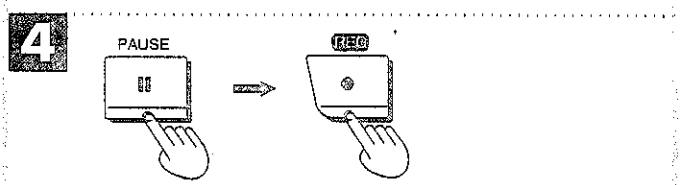
After recording is finished

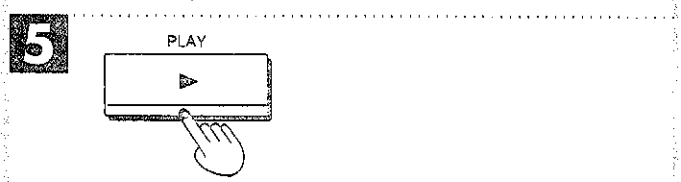
- **When CD play is finished:**
  CD automatically stops (the cassette keeps recording).
- **When the tapes reaches to the end:**
  Recording stops but CD keeps playing (the track may be interrupted).
  To continue recording on the other side of the tape, remove the tape, turn it around, install it again, and start recording once more.

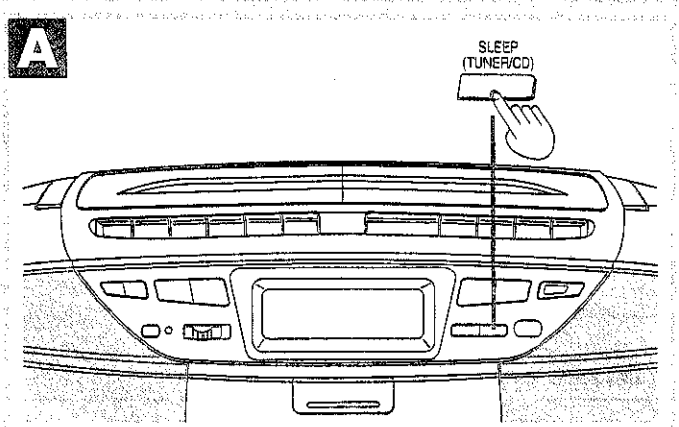
To continue recording a different CD on the same cassette:
① When recording of first CD is finished, press [■/≙ STOP/EJECT] to stop the tape.
② Replace the CD and display the play time.
③ Press [● REC] to start recording.
④ When recording of second CD is finished, press [■/≙ STOP/EJECT] to stop the tape.

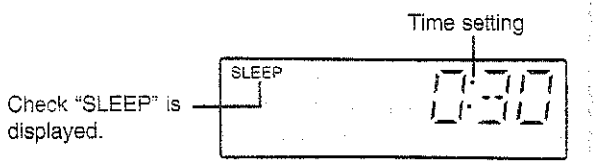


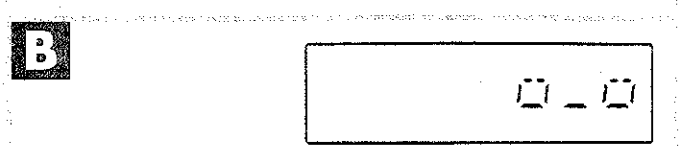












Recording Tape to Tape

1 Set [SELECTOR] to "TAPE/OFF".

2 **Press deck 1 [■/⏏ STOP/EJECT] and load the tape to be recorded.**
Load the tape with the side to be recorded facing upward.

3 **Press deck 2 [■/⏏ STOP/EJECT] and load the tape to be played back.**
Load the tape with the side to be played facing upward.

4 **Press deck 1 [⏸ PAUSE], then press [● REC].**
[▶ PLAY] is also depressed with [● REC].

5 **Press deck 2 [▶ PLAY] to start the recording.**
Deck 2 playback and deck 1 recording start simultaneously.

To stop the recording:
Press deck 1 [■/⏏ STOP/EJECT].
(Playback does not stop.)

To temporarily stop recording:
Press deck 1 [⏸ PAUSE].
To resume recording, press [⏸ PAUSE] again.

If the front side of the playback tape finishes first:
Deck 1 continues recording even if deck 2 is stopped.
1. Press deck 1 [■/⏏ STOP/EJECT].
2. Press deck 2 [■/⏏ STOP/EJECT] and turn the tape over.
3. Press deck 1 [⏸ PAUSE], then press [● REC].
4. Press deck 2 [▶ PLAY].

If the front side of the recording tape finishes first:
Deck 2 continues playing even if deck 1 is stopped.
1. Press deck 2 [■/⏏ STOP/EJECT].
2. Press deck 1 [■/⏏ STOP/EJECT] and turn the tape over.
   Take up the leader tape (See page 15).
3. Press deck 1 [⏸ PAUSE], then press [● REC].
4. Press deck 2 [▶ PLAY].

Using the sleep timer

(Available only when you are listening to the radio or a CD)
This timer turns your unit OFF at the set time (Max. 2 hours, settable at 30-minute intervals). It lets you fall asleep while listening to music.

While enjoying the desired source:
Press [SLEEP] to select the desired time. A

Every time you press the button:

0:30 → 1:00 → 1:30 → 2:00 → (off)

After the set time has elapsed, the radio or CD will be stopped.
The unit will be turned off if the tape is not travelling (all the indicators on the display will go off).

Notes:

- Be sure to stop the tape when using the sleep timer, except if you are recording.
- If [SELECTOR] is switched to "TAPE/OFF", the set time is cancelled.

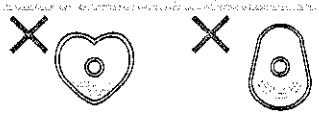
To cancel the sleep timer:
Press [SLEEP] repeatedly until "SLEEP" is cleared.

To confirm the remaining time:
Press [SLEEP].

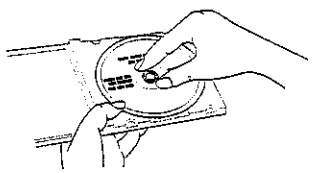
To change the time remaining during operation:
Press [SLEEP] to show the remaining time then press [SLEEP] to select the desired time.

If you are recording during sleep operation:
When the sleep timer reaches its set time, the radio or CD will stop, but the tape will continue until it reaches the end of the tape.
The display indicates that the unit is recording with no sound. B
In this case, press [■/⏏ STOP/EJECT] to stop recording.

A

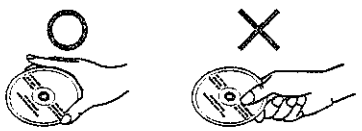


B How to return CDs to their case



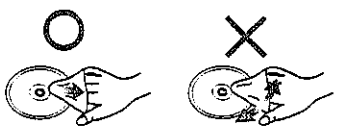
Face label upwards and press downward from above.

C How to hold CDs



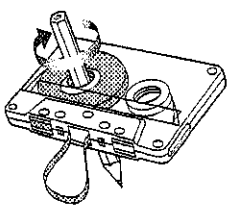
Do not touch the recorded surface.

D How to clean CDs

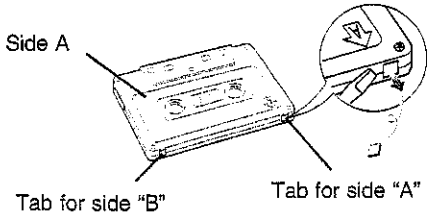


Wipe from inside outward.

E How to take up tape slack

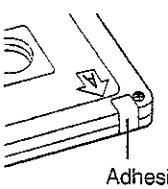


F



To re-record

Normal position tape



Concerning CDs

With this unit, you can only play CDs having this mark.
However, do not use irregular shape CDs.
CDs of the sort can damage the unit. A

COMPACT disc DIGITAL AUDIO

Handling precautions

Be sure to handle CDs according to the precautions shown on the left (B – D). Failure to do so may damage the CD or the unit.

- If you are taking the CD from a cold to a warm environment, moisture may form on the CD. Wipe this off with a soft, dry, lint-free cloth before using the CD.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to CDs. (Do not use CDs with exposed adhesive from tape or left over peeled off stickers.)
- Do not use scratch-proof protectors or covers other than those specified for use with this unit.

Storage precautions

Be sure to store CDs in their cases to protect them from dust, scratches, and warping.

Do not place or store CDs in the following places:

- Locations exposed to direct sunlight.
- Humid or dusty locations.
- Locations directly exposed to a heat vent or heating appliance.
- In the glove compartment or on the rear deck of an automobile.

Concerning cassette tapes

Selection of cassette tapes

Tapes can get caught on the capstans. Use caution with the following types of tapes.

Cassette tapes exceeding 100 minutes:
Tapes are made of a thin film material. Do not repeatedly advance and stop the tape, fast-forward it or rewind it.

Endless-tapes:
Failure to operate these tapes correctly may cause the tape to wind around the revolving parts.

Always read the instructions provided with your tapes.

Tape slack E

Tape slack may cause the tape to break.

Erasure prevention F

Use a screwdriver or similar object to break out the tab.

Storage precautions

Do not place or store tapes in the following places:

- In high temperature (35°C or higher) or high humidity (80% or higher) areas.
- In a strong magnetic field (near a speaker, on top of a TV, etc.). This can erase a recording.
- Locations exposed to direct sunlight.

Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Problem	Probable cause(s)	Suggested remedy	Page
Common problems			
No operation when the unit is powered by batteries.	Is the AC power cord still connected to the unit but disconnected from a household AC outlet while batteries are being used?	Disconnect the AC power cord from the unit.	6
	Are the batteries flat?	Replace them with new ones. Alternatively, use a household AC outlet as the power source.	
	Have the batteries been installed incorrectly with their (+) and (–) polarities reversed?	Align the (+) and (–) polarities properly.	
"U01" appears.	Are the batteries flat?	Replace them with new ones. Alternatively, use a household AC outlet as the power source.	
"U02" appears.	Have preparations been made to supply power to the unit?	Install the batteries or connect the AC power cord.	
	When the memory back-up batteries have not been installed, "U02" does not appear.		
When listening to the radio or CDs, the unit suddenly switches to playing a tape.	Has the sleep timer reached its set time when the tape is playing?	Press [■/⏏ STOP/EJECT] to stop the tape.	17
While listening to CDs			
Play does not start. No display of track numbers, etc.	Has the CD been installed upside down?	Install the CD with the label side facing up.	10
	Has there been a sudden change in temperature? For instance, was the unit brought straight from a cold place into a warm location?	Condensation may have formed on the lens unit. Leave it for about an hour before attempting operation again.	
Certain sections are not played properly.	Is the CD dirty?	Wipe with a soft cloth.	18
	Is the CD scratched?	Replace with a new CD.	
While listening to tapes			
No recording.	Has the tape's accidental erasure-prevention tabs been broken off?	Cover the holes with adhesive tape.	18
High level of noise; poor sound quality.	Are the heads dirty?	Clean them.	Back cover
Tape is not ejected. The lid cannot be closed when loading the tape.	Are the batteries flat?	Replace them with new ones or, alternatively, use a household AC outlet as the power source and press [■/⏏ STOP/EJECT] after pressing [▶ PLAY].	6
	Is the power supplied to the unit?	Install the batteries or connect the AC power cord and press [■/⏏ STOP/EJECT] after pressing [▶ PLAY].	
While listening to the radio			
High level of noise; stations cannot be tuned in well.	Has the antenna been adjusted properly?	Try changing its direction.	8
Noise heard during AM reception.	Are you using the remote control of another appliance near the unit?	Use the remote control at a distance.	
	Are you operating the unit and a TV set at the same time?	Place the unit at a distance from the TV. Alternatively, turn off the TV's power.	15
While using the remote control transmitter			
No operation.	Are the batteries flat?	Replace them with new ones.	5
	Have the batteries been installed with their (+) and (–) polarities aligned properly?	Align the (+) and (–) polarities properly.	
	Is the remote control pointed toward the unit's sensor?	Check whether anything is obstructing the path between the remote control and the unit. Point the remote control properly at the unit's sensor, and operate.	
	Is the unit's sensor exposed to direct sunlight, fluorescent light or another strong source of light?	Shield the sensor from strong sources of light.	

Maintenance

If the surfaces are dirty

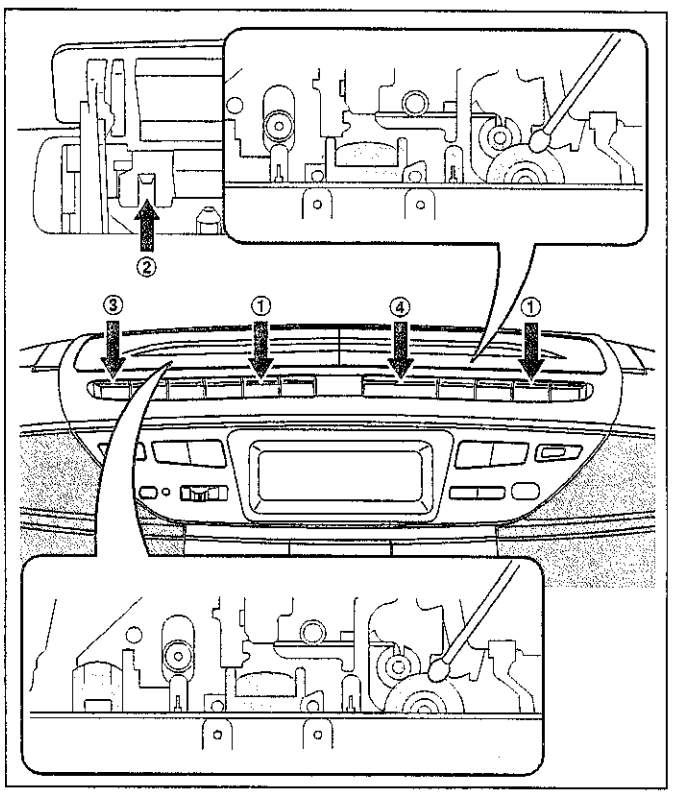
To clean this unit, wipe with a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dipped in a soap-and-water solution or a weak detergent solution.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically impregnated cloth, read the instructions that came with the cloth carefully.

For a cleaner crisper sound

We recommend that you periodically clean parts (the shaded portions in the figure below) the tape contacts, like the heads.
Do not use any solution other than alcohol for head cleaning.

1. Open the cassette cover by pressing [■/⏏ STOP/EJECT] (①).
2. (deck 1)
   Holding the tab inside the deck (②), press [● REC] (③).
   (deck 2)
   Press [▶ PLAY] (④).
3. Clean them with a cotton swab.



Technical specifications

Radio

Frequency range	
For United Kingdom	
FM	87.50–108.00 MHz (50 kHz steps)
AM	522–1611 kHz (9 kHz steps)
For Australia and New Zealand	
FM	87.50–108.00 MHz (50 kHz steps)
AM	531–1602 kHz (9 kHz steps)
	530–1600 kHz (10 kHz steps)

CD player

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength 780 nm)
No. of channels	2 channel, stereo
Wow and flutter	Less than possible measurement data
D/A converter	MASH (1 bit DAC)

Tape recorder

Track system	4 track, 2 channel, stereo
Monitor system	Variable sound monitor
Recording system	AC bias
Erasing system	Multi Pole magnet
Frequency range	
Normal position	50–12000 Hz

General

Speakers	10 cm 6 Ω x 2
Jacks	
Output	PHONES: 3.5 mm stereo (32 Ω)
Power requirement	
AC	230–240 V, 50 Hz Power consumption: 60 W
Battery	12 V [Eight (R20/LR20, D, UM-1) batteries] • Do not use rechargeable type batteries.
Memory back-up for computer	6 V [Four (R6/LR6, AA, UM-3) batteries] • Do not use rechargeable type batteries.
Dimensions (WxHxD)	480 x 156 x 248 mm
Weight	4.8 kg without batteries

Note

Specifications are subject to change without notice.
Weight and dimensions are approximate.

MASH is a trademark of NTT.

Matsushita Electric Industrial Co., Ltd.
Osaka 542-8588, Japan

En

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